RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 0/541, 257Source: 08/02/200

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 08/02/2006 PATENT APPLICATION: US/10/541,257 TIME: 09:08:27

Input Set : N:\RJAVED\10541257.txt

Output Set: N:\CRF4\08022006\J541257.raw

```
4 <110 > APPLICANT: KOCHENDOERFER, GERD G.
              SHAO, HAIYAN
      6
              CRESSMAN, SONYA
      8 <120> TITLE OF INVENTION: MULTIPLEX POLYMER LIGATION
     10 <130> FILE REFERENCE: GRFN-047
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/541,257
C--> 12 <141> CURRENT FILING DATE: 2005-06-29
     12 <150> PRIOR APPLICATION NUMBER: 60/437,511
     13 <151> PRIOR FILING DATE: 2002-12-30
     15 <150> PRIOR APPLICATION NUMBER: 60/515,609
     16 <151> PRIOR FILING DATE: 2003-10-29
     18 <160> NUMBER OF SEQ ID NOS: 2
     20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 174
     24 <212> TYPE: PRT
     25 <213> ORGANISM: Artificial Sequence
     27 <220> FEATURE:
     28 <223> OTHER INFORMATION: synthetic granulocyte stimulating protein
     30 <220> FEATURE:
     31 <221> NAME/KEY: VARIANT
     32 <222> LOCATION: (58)...(58)
     33 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the epsilon-
amino group
     34
              with an
     35
              oxime linker group coupled to a designated water-soluble polymer through
     36
              an oxime bond
W - - > 37
              (or intermediates which contain AoA)
     39 <220> FEATURE:
     40 <221> NAME/KEY: VARIANT
     41 <222> LOCATION: (121) ... (121)
     42 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
     44 <220> FEATURE:
     45 <221> NAME/KEY: VARIANT
     46 <222> LOCATION: (126)...(126)
     47 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
     49 <220> FEATURE:
     50 <221> NAME/KEY: VARIANT
     51 <222> LOCATION: (131)...(131)
     52 <223> OTHER INFORMATION: Xaa = psi (non-native amino acid residue
     53
              consisting of a cysteine that is
     54
              carboxamidemethylated at the sulfhydryl group)
     56 <220> FEATURE:
     57 <221> NAME/KEY: VARIANT
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DATE: 08/02/2006

TIME: 09:08:27

Input Set : N:\RJAVED\10541257.txt Output Set: N:\CRF4\08022006\J541257.raw 58 <222> LOCATION: (133)...(133) 59 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the epsilonamino group 60 oxime linker group coupled to a designated water-soluble polymer through 61 62 an oxime bond W - - > 63(or intermediates which contain AoA) 65 <400> SEQUENCE: 1 66 Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys 68 Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln 70 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val 40 W--> 72 Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys 74 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser 76 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 78 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp 105 100 80 Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro 120 82 Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 135 140 84 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 150 86 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 170 165 90 <210> SEQ ID NO: 2 91 <211> LENGTH: 174 92 <212> TYPE: PRT 93 <213> ORGANISM: Artificial Sequence 95 <220> FEATURE: 96 <223> OTHER INFORMATION: synthetic granulocyte stimulating protein 98 <220> FEATURE: 99 <221> NAME/KEY: VARIANT 100 <222> LOCATION: (17)...(17) 101 <223> OTHER INFORMATION: Xaa = Abu (Aminobutyric acid) 103 <220> FEATURE: 104 <221> NAME/KEY: VARIANT 105 <222> LOCATION: (58) ... (58) 106 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the epsilon-amino group 107 with an 108 oxime linker group coupled to a designated water-soluble polymer through 109 an oxime bond W--> 110 (or intermediates which contain AoA) 112 <220> FEATURE: 113 <221> NAME/KEY: VARIANT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/541,257

RAW SEQUENCE LISTING DATE: 08/02/2006 PATENT APPLICATION: US/10/541,257 TIME: 09:08:27 Input Set: N:\RJAVED\10541257.txt Output Set: N:\CRF4\08022006\J541257.raw

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114 <222> LOCATION: (121) ... (121)
     115 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
     117 <220> FEATURE:
     118 <221> NAME/KEY: VARIANT
     119 <222> LOCATION: (126) ... (126)
     120 <223> OTHER INFORMATION: Xaa = Nle (norleucine)
     122 <220> FEATURE:
     123 <221> NAME/KEY: VARIANT
     124 <222> LOCATION: (131) ... (131)
     125 <223> OTHER INFORMATION: Xaa = psi (non-native amino acid residue
               consisting of a cysteine that is
               carboxamidemethylated at the sulfhydryl group)
     127
     129 <220> FEATURE:
     130 <221> NAME/KEY: VARIANT
     131 <222> LOCATION: (133)...(133)
     132 <223> OTHER INFORMATION: Xaa = a non-native lysine chemically modified at the
epsilon-amino group
              with an
    133
               oxime linker group coupled to a designated water-soluble polymer through
     134
     135
               an oxime bond
              (or intermediates which contain AoA)
W--> 136
     138 <400> SEQUENCE: 2
     139 Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Lys
                                             10
                          5
W--> 141 Xaa Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln
                                         25
                     20
     143 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
     145 Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys
                                 55
     147 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
                             70
                                                  75
     149 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
     151 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
                                         105
     153 Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro
                                     120
                                                          125
                 115
     155 Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
                                 135
     157 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
```

155

150

159 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro

158 145

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/02/2006 PATENT APPLICATION: US/10/541,257 TIME: 09:08:28

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 58,121,126,131,133
Seq#:2; Xaa Pos. 17,58,121,126,131,133

VERIFICATION SUMMARY DATE: 08/02/2006
PATENT APPLICATION: US/10/541,257 TIME: 09:08:28

Input Set : N:\RJAVED\10541257.txt
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. . . .

M:341 Repeated in SeqNo=2

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:37 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:63 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48 M:341 Repeated in SeqNo=1 L:110 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:136 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16